

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/521,111  
Source: PCR  
Date Processed by STIC: 3/3/06

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 03/03/2006

PATENT APPLICATION: US/10/521,111

TIME: 12:53:07

Input Set : A:\SL5068.ST25.txt

Output Set: N:\CRF4\03032006\J521111.raw

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3 <110> APPLICANT: CARDY, Donald Leonard Nicholas
4     ALLEN, Gerald John
6 <120> TITLE OF INVENTION: Lateral Flow Assay Device and Method
8 <130> FILE REFERENCE: 056222-5068-US
10 <140> CURRENT APPLICATION NUMBER: US 10/521,111
11 <141> CURRENT FILING DATE: 2005-01-12
13 <150> PRIOR APPLICATION NUMBER: PCT/GB2003/003059
14 <151> PRIOR FILING DATE: 2003-07-14
16 <150> PRIOR APPLICATION NUMBER: GB 0220452.7
17 <151> PRIOR FILING DATE: 2002-09-04
19 <150> PRIOR APPLICATION NUMBER: GB 0216162.8
20 <151> PRIOR FILING DATE: 2002-07-12
22 <160> NUMBER OF SEQ ID NOS: 57
24 <170> SOFTWARE: PatentIn version 3.3
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 34
28 <212> TYPE: DNA
29 <213> ORGANISM: Escherichia coli
31 <400> SEQUENCE: 1
32 gcatttagct accgggcagt gccattttcg aaat
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 95
37 <212> TYPE: DNA
38 <213> ORGANISM: Escherichia coli
41 <220> FEATURE:
42 <221> NAME/KEY: misc_feature
43 <222> LOCATION: (69)..(70)
44 <223> OTHER INFORMATION: octanediol group connects residues 69 and 70
46 <220> FEATURE:
47 <221> NAME/KEY: misc_feature
48 <222> LOCATION: (95)..(95)
49 <223> OTHER INFORMATION: 3' phosphorylated
51 <400> SEQUENCE: 2
52 tcgtcttccg gtctctcctc tcaagcctca gcgctctctc tccctatagt gtagtcgtatt
54 aatttcgaag gcatgacaac ccgaacacca gtgat
57 <210> SEQ ID NO: 3
58 <211> LENGTH: 21
59 <212> TYPE: DNA
60 <213> ORGANISM: Escherichia coli
63 <220> FEATURE:
64 <221> NAME/KEY: misc_feature
65 <222> LOCATION: (21)..(21)
66 <223> OTHER INFORMATION: 3' PCR-block

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68 <400> SEQUENCE: 3
69 gcgtccactc cggctcctctc g 21
72 <210> SEQ ID NO: 4
73 <211> LENGTH: 30
74 <212> TYPE: DNA
75 <213> ORGANISM: Escherichia coli
78 <220> FEATURE:
79 <221> NAME/KEY: misc_feature
80 <222> LOCATION: (30)..(30)
81 <223> OTHER INFORMATION: 3' PCR block
83 <400> SEQUENCE: 4
84 gcttagatgc tttcagcact tatctcttcc 30
87 <210> SEQ ID NO: 5
88 <211> LENGTH: 111
89 <212> TYPE: DNA
90 <213> ORGANISM: Escherichia coli
93 <220> FEATURE:
94 <221> NAME/KEY: misc_feature
95 <222> LOCATION: (76)..(77)
96 <223> OTHER INFORMATION: octanediol group connects residues 76 and 77
98 <220> FEATURE:
99 <221> NAME/KEY: misc_feature
100 <222> LOCATION: (111)..(111)
101 <223> OTHER INFORMATION: 3' phosphorylated
103 <400> SEQUENCE: 5
104 tgcttgcttg tctgcgttct ggatattacc cgagttctcg cttcctatag tgagtcgtat 60
106 taattttctcg tcttcgggtc tctcctctca agcctcagcg ctctctctcc c 111
109 <210> SEQ ID NO: 6
110 <211> LENGTH: 12
111 <212> TYPE: DNA
112 <213> ORGANISM: Escherichia coli
115 <220> FEATURE:
116 <221> NAME/KEY: misc_feature
117 <222> LOCATION: (1)..(1)
118 <223> OTHER INFORMATION: 5' alkaline phosphatase labelled
120 <400> SEQUENCE: 6
121 ggatattacc cg 12
124 <210> SEQ ID NO: 7
125 <211> LENGTH: 25
126 <212> TYPE: DNA
127 <213> ORGANISM: Escherichia coli
130 <220> FEATURE:
131 <221> NAME/KEY: misc_feature
132 <222> LOCATION: (1)..(1)
133 <223> OTHER INFORMATION: 5' biotin labelled
135 <400> SEQUENCE: 7
136 tctgctgcct gcttgctctgc gttct 25
139 <210> SEQ ID NO: 8
140 <211> LENGTH: 34

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141 <212> TYPE: DNA
142 <213> ORGANISM: Escherichia coli
144 <400> SEQUENCE: 8
145 gcatttagct accgggcagt gccattttcg aaat 34
148 <210> SEQ ID NO: 9
149 <211> LENGTH: 95
150 <212> TYPE: DNA
151 <213> ORGANISM: Escherichia coli
154 <220> FEATURE:
155 <221> NAME/KEY: misc_feature
156 <222> LOCATION: (69)..(70)
157 <223> OTHER INFORMATION: octanediol group connects residues 69 and 70
159 <220> FEATURE:
160 <221> NAME/KEY: misc_feature
161 <222> LOCATION: (95)..(95)
162 <223> OTHER INFORMATION: 3' phosphorylated
164 <400> SEQUENCE: 9
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167 aatttcgaag gctgacaac cgaacacca gtgat 95
170 <210> SEQ ID NO: 10
171 <211> LENGTH: 21
172 <212> TYPE: DNA
173 <213> ORGANISM: Escherichia coli
176 <220> FEATURE:
177 <221> NAME/KEY: misc_feature
178 <222> LOCATION: (21)..(21)
179 <223> OTHER INFORMATION: 3' PCR block
181 <400> SEQUENCE: 10
182 gcgtccactc cgtctctctc g 21
185 <210> SEQ ID NO: 11
186 <211> LENGTH: 30
187 <212> TYPE: DNA
188 <213> ORGANISM: Escherichia coli
191 <220> FEATURE:
192 <221> NAME/KEY: misc_feature
193 <222> LOCATION: (30)..(30)
194 <223> OTHER INFORMATION: 3' PCR block
196 <400> SEQUENCE: 11
197 gcttagatgc tttcagcact tatctcttcc 30
200 <210> SEQ ID NO: 12
201 <211> LENGTH: 111
202 <212> TYPE: DNA
203 <213> ORGANISM: Escherichia coli
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <222> LOCATION: (76)..(77)
209 <223> OTHER INFORMATION: octanediol group connects residues 76 and 77
211 <220> FEATURE:
212 <221> NAME/KEY: misc_feature

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213 <222> LOCATION: (111)..(111)
214 <223> OTHER INFORMATION: 3' phosphorylated
216 <400> SEQUENCE: 12
217 tgctgtcttg tctgcgttct ggatatacacc cgagttctcg cttcctatag tgagtcgtat      60
219 taattttctcg tcttcgggtc tctcctctca agcctcagcg ctctctctcc c                111
222 <210> SEQ ID NO: 13
223 <211> LENGTH: 12
224 <212> TYPE: DNA
225 <213> ORGANISM: Escherichia coli
228 <220> FEATURE:
229 <221> NAME/KEY: misc_feature
230 <222> LOCATION: (12)..(12)
231 <223> OTHER INFORMATION: 3' horse radish peroxidase labelled
233 <400> SEQUENCE: 13
234 ggatatacacc cg                                                                12
237 <210> SEQ ID NO: 14
238 <211> LENGTH: 25
239 <212> TYPE: DNA
240 <213> ORGANISM: Escherichia coli
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature
245 <222> LOCATION: (1)..(1)
246 <223> OTHER INFORMATION: 5' biotin labelled
248 <400> SEQUENCE: 14
249 tctgtctgcct gcttgtctgc gttct                                              25
252 <210> SEQ ID NO: 15
253 <211> LENGTH: 34
254 <212> TYPE: DNA
255 <213> ORGANISM: Escherichia coli
257 <400> SEQUENCE: 15
258 gcatttagct accgggcagt gccattttcg aaat                                    34
261 <210> SEQ ID NO: 16
262 <211> LENGTH: 95
263 <212> TYPE: DNA
264 <213> ORGANISM: Escherichia coli
267 <220> FEATURE:
268 <221> NAME/KEY: misc_feature
269 <222> LOCATION: (69)..(70)
270 <223> OTHER INFORMATION: octanediol group connects residues 69 and 70
272 <220> FEATURE:
273 <221> NAME/KEY: misc_feature
274 <222> LOCATION: (95)..(95)
275 <223> OTHER INFORMATION: 3' phosphorylated
277 <400> SEQUENCE: 16
278 tcgtcttccg gtctctcctc tcaagcctca gcgctctctc tccctatagt gagtcgtatt      60
280 aatttcgaag gcatgacaac ccgaacacca gtgat                                    95
283 <210> SEQ ID NO: 17
284 <211> LENGTH: 44
285 <212> TYPE: DNA

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Input Set : A:\SL5068.ST25.txt

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286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: DNA homologue of SMART RNA1 amplicon
291 <400> SEQUENCE: 17
292 gggagagaga gcgctgagggc ttgagaggag agaccggaag acga                44
295 <210> SEQ ID NO: 18
296 <211> LENGTH: 25
297 <212> TYPE: DNA
298 <213> ORGANISM: Artificial Sequence
300 <220> FEATURE:
301 <223> OTHER INFORMATION: 5' biotinylated capture probe for SMART RNA1 amplicon
304 <220> FEATURE:
305 <221> NAME/KEY: misc_feature
306 <222> LOCATION: (1)..(1)
307 <223> OTHER INFORMATION: 5' biotin labelled
309 <400> SEQUENCE: 18
310 tctgctcgtc ttccggtctc tcttc                25
313 <210> SEQ ID NO: 19
314 <211> LENGTH: 111
315 <212> TYPE: DNA
316 <213> ORGANISM: Escherichia coli
319 <220> FEATURE:
320 <221> NAME/KEY: misc_feature
321 <222> LOCATION: (76)..(77)
322 <223> OTHER INFORMATION: octanediol group connects residues 76 and 77
324 <220> FEATURE:
325 <221> NAME/KEY: misc_feature
326 <222> LOCATION: (111)..(111)
327 <223> OTHER INFORMATION: 3' phosphorylated
329 <400> SEQUENCE: 19
330 tgccgtgcttg tctgcgttct ggatatacc cgagttctcg cttcctatag tgagtcgtat    60
332 taattttctcg tcttcggtc tctctctca agcctcagcg cttctctccc c            111
335 <210> SEQ ID NO: 20
336 <211> LENGTH: 20
337 <212> TYPE: DNA
338 <213> ORGANISM: Artificial Sequence
340 <220> FEATURE:
341 <223> OTHER INFORMATION: 3' DNP labelled detection probe for SMART RNA1 amplicon
344 <220> FEATURE:
345 <221> NAME/KEY: misc_feature
346 <222> LOCATION: (20)..(20)
347 <223> OTHER INFORMATION: 3' dinitrophenol labelled
349 <400> SEQUENCE: 20
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353 <210> SEQ ID NO: 21
354 <211> LENGTH: 45
355 <212> TYPE: DNA
356 <213> ORGANISM: Escherichia coli
358 <400> SEQUENCE: 21

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**VERIFICATION SUMMARY**

PATENT APPLICATION: **US/10/521,111**

DATE: 03/03/2006

TIME: 12:53:08

Input Set : **A:\SL5068.ST25.txt**

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